

Storm Data and Unusual Weather Phenomena - July 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KANSAS, Southeast				
LABETTE COUNTY --- 1.5 SSW CHETOPA [37.01, -95.09]				
	07/15/07 05:10 CST		0	Hail (1.00 in)
	07/15/07 05:10 CST		0	Source: Law Enforcement
An isolated severe thunderstorms moved across portions of Southeast Kansas during the early morning hours.				
RUSSELL COUNTY --- 0.5 E LURAY [39.12, -98.69]				
	07/15/07 18:06 CST		0.20K	Thunderstorm Wind (EG 61 kt)
	07/15/07 18:10 CST		0	Source: Trained Spotter
Damaging winds also snapped 6 inch diameter tree limbs that were thrown almost 40 feet (13 meters) from the parent tree.				
RUSSELL COUNTY --- 0.5 E LURAY [39.12, -98.69]				
	07/15/07 18:06 CST		0	Hail (1.25 in)
	07/15/07 18:20 CST		0	Source: Trained Spotter
Quarter to half dollar sized hail fell for almost 15 minutes. The quarter sized hail covered the ground.				
RUSSELL COUNTY --- 0.5 E LURAY [39.12, -98.69]				
	07/15/07 18:08 CST		0	Thunderstorm Wind (MG 61 kt)
	07/15/07 18:08 CST		0	Source: Mesonet
Measured wind gust at Luray High School by KSN Weatherlab.				
Isolated thunderstorms developed in a weak northwest mid level flow along the remnants of a weak surface boundary. Hot afternoon temperatures lead to severe thunderstorms that produced damaging winds and large hail.				
HARPER COUNTY --- ANTHONY [37.15, -98.03]				
	07/12/07 04:20 CST		0.20K	Thunderstorm Wind (EG 52 kt)
	07/12/07 04:30 CST		0	Source: Law Enforcement
Damaging winds knocked down small to medium tree limbs.				
KINGMAN COUNTY --- 2.1 SSE WILLOWDALE [37.49, -98.29]				
	07/12/07 04:30 CST		0	Heavy Rain
	07/12/07 06:04 CST		0	Source: Trained Spotter
Torrential downpours produced 1.97 inches of rainfall in a two hour period. Some minor flooding occurred in Southwestern Kingman County.				
A complex of thunderstorms moved south across Southwest and South Central Kansas during the early morning hours of July 12th. Portions of South Central Kansas received damaging winds and very heavy rainfall. The thunderstorm complex continued to move southeast into Northern Oklahoma.				
ALLEN COUNTY --- IOLA [37.92, -95.40]				
	07/01/07 00:00 CST		6M	Flash Flood (due to Heavy Rain)
	07/02/07 10:03 CST		0	Source: Emergency Manager
Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Allen County. The flash flooding and the ensuing river flooding caused an estimated 3 million dollars in damages to private property and 3 million dollars in damage to public infrastructure. Additionally, the flood water damaged and estimated 8,000 acres of crops. Moderate flooding occurred on the Neosho River with a crest of 26.9 feet recorded at Iola. This was 11.9 feet above flood stage. The river remained above flood stage until the afternoon of July 3rd.				
BUTLER COUNTY --- EL DORADO [37.82, -96.87]				
	07/01/07 00:00 CST		0.11M	Flood (due to Heavy Rain)
	07/01/07 21:22 CST		0	Source: Emergency Manager
Heavy rainfall from the end of June into early July caused flooding throughout Butler County. This resulted in roughly 108 thousand dollars in damage.				
CHAUTAUQUA COUNTY --- SEDAN [37.13, -96.18]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/01/07 00:00 CST		48K	Flash Flood (due to Heavy Rain)
	07/01/07 21:50 CST		0	Source: Emergency Manager

Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Chautauqua County. This resulted in roughly 48 thousand dollars in damage.

COWLEY COUNTY --- WINFIELD [37.25, -96.98]

07/01/07 00:00 CST	0.32M	Flash Flood (due to Heavy Rain)
07/01/07 21:50 CST	0	Source: Emergency Manager

Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Cowley County. The flash flooding and the ensuing river flooding resulted in roughly 320 thousand dollars in damage. Major flooding was observed on the Walnut River at Winfield with a crest of 35.79 feet recorded the evening of July 1st. This was 17.79 feet above flood stage. The Walnut River at Winfield remained above flood stage until July 3rd. Moderate flooding was also observed on the Walnut River and the Arkansas River at Arkansas City.

ELK COUNTY --- HOWARD [37.47, -96.27]

07/01/07 00:00 CST	27M	Flash Flood (due to Heavy Rain)
07/01/07 21:50 CST	0	Source: Emergency Manager

Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Elk County. The flooding damaged or destroyed around 400 houses. This led 12 to 42 million dollars in damage. An awesome 21.49 inches of rain fell during the month of June. Much of this fell during the last few days of the month.

GREENWOOD COUNTY --- EUREKA [37.82, -96.30]

07/01/07 00:00 CST	51K	Flood (due to Heavy Rain)
07/01/07 21:22 CST	0	Source: Emergency Manager

Heavy rainfall from the end of June into early July caused flash flooding throughout Greenwood County. This resulted in roughly 59 thousand dollars in damage.

LABETTE COUNTY --- PARSONS [37.35, -95.27]

07/01/07 00:00 CST	0.54M	Flash Flood (due to Heavy Rain)
07/02/07 10:03 CST	0	Source: Emergency Manager

Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Labette County. The flash flooding and the ensuing river flooding resulted in 2 homes being destroyed and 11 others suffering major damage. This resulted in roughly 540 thousand dollars in damage. Major flooding was observed at Parsons and Oswego. Parsons recorded a crest of 35.05 feet while Oswego recorded a crest of 30.0 feet. These crests were 14.05 feet and 13 feet above flood stage respectively. The Neosho fell blow flood stage on the July 7th at both locations.

MONTGOMERY COUNTY --- COFFEYVILLE [37.03, -95.63]

07/01/07 00:00 CST	1	81.15M	Flash Flood (due to Heavy Rain)
07/02/07 10:03 CST		0	Source: Emergency Manager

Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Montgomery County. The hardest hit areas were Independence and Coffeyville. The flash flooding combined with the ensuing record river flooding along the Verdigris River led to at least 500 homes being destroyed with another 55 sustaining major damages. Businesses in the county reported 23 million in losses and the cost to public infrastructure resulted in another 4 million in damages. Additionally, 43,000 acres of cropland were flooded. The Verdigris River also overtopped a levee protecting the refinery in Coffeyville resulting in an oily toxic mess that inundated areas downstream. The Verdigris River at Independence crested at 52.4 feet in the morning hours of July 1st. This was 22.4 feet above flood stage. At Coffeyville the river crested at 30.7 feet the evening of July 1st which is 12.7 above flood stage. Again, both of these crests were records. The river remained above flood stage for both cities until July 7th. Unfortunately there was one fatality. A 55 year old man was found in the Budget Inn in Coffeyville. An autopsy revealed that the individual died as a result of drowning. This tragedy was compounded by the fact that the individual was warned twice that floodwaters would inundate the hotel but on both occasions the individual refused to leave. The Coffeyville Journal and the Arkansas City Traveler contributed to this report.

Direct Fatalities: M55PS

NEOSHO COUNTY --- CHANUTE [37.68, -95.47]

07/01/07 00:00 CST	12M	Flash Flood (due to Heavy Rain)
07/02/07 10:03 CST	0	Source: Emergency Manager

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Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Neosho County. The flash flooding and the ensuing river flooding resulted in roughly 100 homes being destroyed and another 50 sustaining major damage. This resulted in at least 10.5 million dollars in damages. An additional 1.5 million dollars in damage was reported public infrastructure. The Neosho River reached a record crest of 40.6 feet on the morning of July 2nd. This was 11.6 feet above flood stage. Major flooding was seen on the Neosho at Chanute when a crest of 36.82 feet was recorded on the morning of July 1st. The Neosho inundated the city of Chanute with some areas under as much as 7 to 8 feet of water. The river remained above flood stage at Chanute until July 4th and at Erie until July 5th.				
SUMNER COUNTY --- OXFORD [37.28, -97.17]				
	07/01/07 00:00 CST		0	Flood (due to Heavy Rain)
	07/01/07 21:48 CST		0	Source: Law Enforcement
WILSON COUNTY --- FREDONIA [37.53, -95.82]				
	07/01/07 00:00 CST		21.60M	Flash Flood (due to Heavy Rain)
	07/02/07 10:03 CST		0	Source: Emergency Manager
Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Wilson County. The flash flooding and the ensuing river flooding led to approximately 500 homes sustaining major damage which resulted in an estimated 15 million dollars in damage. Additionally, 6.6 million dollars of damage was done to public infrastructure. The Fall River at Fredonia had a record crest of 41.12 feet on the morning of June 30th. This is 24.12 feet above flood stage. The river fell below flood stage early in the morning of July 2nd.				
WOODSON COUNTY --- YATES CENTER [37.88, -95.73]				
	07/01/07 00:00 CST		71K	Flash Flood (due to Heavy Rain)
	07/01/07 15:04 CST		0	Source: Emergency Manager
Extremely heavy rainfall from the end of June into early July caused flash flooding throughout Woodson County. This resulted in roughly 71 thousand dollars in damage.				
WOODSON COUNTY --- YATES CENTER [37.88, -95.73]				
	07/01/07 15:05 CST		0	Flood (due to Heavy Rain)
	07/04/07 07:33 CST		0	Source: Law Enforcement
CHAUTAUQUA COUNTY --- SEDAN [37.13, -96.18]				
	07/01/07 21:51 CST		0	Flood (due to Heavy Rain)
	07/03/07 07:19 CST		0	Source: Law Enforcement
COWLEY COUNTY --- WINFIELD [37.25, -96.98]				
	07/01/07 21:51 CST		0	Flood (due to Heavy Rain)
	07/03/07 07:19 CST		0	Source: Law Enforcement
ELK COUNTY --- HOWARD [37.47, -96.27]				
	07/01/07 21:51 CST		0	Flood (due to Heavy Rain)
	07/04/07 19:30 CST		0	Source: Law Enforcement
ALLEN COUNTY --- IOLA [37.92, -95.40]				
	07/02/07 10:04 CST		0	Flood (due to Heavy Rain)
	07/03/07 07:26 CST		0	Source: Law Enforcement
LABETTE COUNTY --- PARSONS [37.35, -95.27]				
	07/02/07 10:04 CST		0	Flood (due to Heavy Rain)
	07/04/07 19:30 CST		0	Source: Law Enforcement
MONTGOMERY COUNTY --- INDEPENDENCE [37.23, -95.72]				
	07/02/07 10:04 CST		0	Flood (due to Heavy Rain)
	07/04/07 19:30 CST		0	Source: Law Enforcement
NEOSHO COUNTY --- CHANUTE [37.68, -95.47]				
	07/02/07 10:04 CST		0	Flood (due to Heavy Rain)
	07/04/07 19:30 CST		0	Source: Law Enforcement

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WILSON COUNTY --- FREDONIA [37.53, -95.82]				
	07/02/07 10:04 CST		0	Flood (due to Heavy Rain)
	07/04/07 07:33 CST		0	Source: Law Enforcement
<p>An upper level low pressure system and associated frontal boundary stalled across the area for several days, resulting in periods of numerous and widespread heavy showers and thunderstorms across portions of south-central and southeast Kansas from early on the 27th until July 1st. Phenomenal rainfall totals occurred during this period, ranging anywhere from 8 inches, to as much as 20 inches, heaviest across southeast Kansas. A few the most extreme and measured rainfall reports from June 28th - 30th were 18.29 inches at Fredonia, 12.47 inches at Independence, 11.70 inches at Iola, 9.18 inches at Chanute, 8.63 inches at Erie and 8.40 inches at Coffeyville. Excessive runoff produced widespread, catastrophic, record flooding across much of southeast Kansas, particularly in the vicinity of area rivers, streams and creeks. Hardest hit were the Verdigris and Fall Rivers, where record flooding was observed at Fall River, Independence and Coffeyville. The Neosho River was also hard hit with record flooding observed at Erie and major flooding observed at Chanute, Parsons and Oswego. Public, private and crop damage was extensive and at times severe. Hundreds to potentially a few thousand homes and businesses sustained severe flood damage, an incalculable number of roads were closed due to high water, and several bridges were either washed out or sustained damage. Thousands of acres of crops sustained severe damage. Thousands of miles of roads were damaged from the flood waters. Evacuations and water rescues were common, as several towns were for a time surrounded and/or engulfed by flood waters. Water became unsafe, as flood waters inundated water and sewage treatment plants. Thousands of residents were without power for an extended period of time. Several counties were declared federal disaster areas. Public and private damages likely exceeded hundreds of millions of dollars, but exact monetary values will be difficult to nearly impossible to determine. The flooding in Coffeyville enveloped the Coffeyville Resources Refinery. A malfunctioning pump lead to a 71,000 gallon crude oil spill into the Verdigris River, leaving an oily gunk on everything the oil touched, and contaminating the water for miles. One fatality occurred in Coffeyville, when a gentleman refused to evacuate his motel room, despite being warned twice by emergency officials of the impending flood.</p>				
SALINE COUNTY --- 0.9 NW GYPSUM [38.71, -97.43]				
	07/22/07 19:30 CST		3K	Thunderstorm Wind (EG 52 kt)
	07/22/07 19:30 CST		0	Source: Broadcast Media
<p>A power pole was downed at the intersection of 3rd and King, and 4-inch tree limbs were downed in and around Gypsum. Courtesy of The Salina Journal.</p> <p>Isolated to widely scattered thunderstorms developed across eastern Kansas during the afternoon and evening hours of July 22nd. A few of these storms were strong to severe, producing 60 mph winds. Due to the lack of upper forcing, storms dissipated after dark.</p>				
RUSSELL COUNTY --- 4.2 S HOMER [38.79, -98.72]				
	07/12/07 21:21 CST		0	Thunderstorm Wind (EG 53 kt)
	07/12/07 21:21 CST		0	Source: Public
<p>Small limbs were broken out of the trees.</p> <p>A quasi stationary frontal boundary lead to showers and thunderstorms developing across Southern Nebraska. This cluster of thunderstorms threw out an outflow boundary into Central Kansas, which lead to additional convection developing across Central Kansas leading to an isolated report of damaging winds.</p>				
MARION COUNTY --- RAMONA [38.60, -97.07]				
	07/04/07 13:20 CST		0	Hail (1.25 in)
	07/04/07 13:20 CST		0	Source: Trained Spotter
<p>A trained spotter reported 1.25 inch hail along with 35 mph winds.</p>				
MARION COUNTY --- 2.0 N PEABODY [38.20, -97.10]				
	07/04/07 15:15 CST		0	Hail (1.00 in)
	07/04/07 15:15 CST		0	Source: Trained Spotter
<p>A trained spotter reported quarter size hail north of Peabody.</p>				
RENO COUNTY --- HUTCHINSON ARPT [38.07, -97.87]				
	07/04/07 17:29 CST		0	Thunderstorm Wind (MG 56 kt)
	07/04/07 17:29 CST		0	Source: Official NWS Observations
<p>The Hutchinson Airport measured a gust of 64 mph.</p>				
BUTLER COUNTY --- EL DORADO [37.82, -96.87]				

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	07/04/07 18:05 CST		5K	Thunderstorm Wind (EG 50 kt)
	07/04/07 18:05 CST		0	Source: Law Enforcement
Law enforcement personnel from Butler County reported damage to several trees.				
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BUTLER COUNTY --- EL DORADO [37.82, -96.87]				
	07/04/07 18:23 CST		20K	Flash Flood (due to Heavy Rain)
	07/04/07 22:30 CST		0	Source: Law Enforcement
Law enforcement reported that a water rescue was performed at the intersection of Vine and 1st streets in El Dorado. Several businesses also reported flooding at 1st and Main. Highway 77 was also closed just south of the Turnpike.				
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MCPHERSON COUNTY --- MC PHERSON [38.37, -97.67]				
	07/04/07 19:13 CST		0	Flood (due to Heavy Rain)
	07/04/07 23:18 CST		0	Source: Law Enforcement
Nuisance type flooding was reported throughout the county.				
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SUMNER COUNTY --- SOUTH HAVEN [37.05, -97.40]				
	07/04/07 22:02 CST		10K	Flash Flood (due to Heavy Rain)
	07/05/07 04:59 CST		0	Source: Law Enforcement
Law enforcement reported that water was flowing over Highway 81 at Maize near South Haven. They also reported that vehicle was swept into ditch at this location. Highway 81 at Belle Plaine was also reported to be under 1 foot of water.				
A stationary front draped itself across South Central Kansas with abundant moisture to work with. Afternoon heating allowed for widespread thunderstorms to form which lasted well into the evening. Mother Nature created her own fireworks display with impressive lighting. The thunderstorms produced some strong winds in Reno and Butler Counties and hail in Marion County. With much of the area recovering from heavy rain just a few days prior, flash flooding was also a byproduct of these storms.				
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SEDGWICK COUNTY --- GODDARD [37.67, -97.58]				
	07/09/07 14:01 CST		0	Hail (0.88 in)
	07/09/07 14:01 CST		0	Source: Trained Spotter
An upper-level disturbance and weak surface front helped trigger a few marginally severe thunderstorms.				